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NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	Feb 24	PCTGEN now available on STN
NEWS 4	Feb 24	TEMA now available on STN
NEWS 5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 6	Feb 26	PCTFULL now contains images
NEWS 7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 8	Mar 24	PATDPAFULL now available on STN
NEWS 9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 10	Apr 11	Display formats in DGENE enhanced
NEWS 11	Apr 14	MEDLINE Reload
NEWS 12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 13	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 15	Apr 28	RDISCLOSURE now available on STN
NEWS 16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 18	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 19	May 19	Simultaneous left and right truncation added to WSCA
NEWS 20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS 22	Jun 06	PASCAL enhanced with additional data
NEWS 23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS 24	Jun 25	HSDB has been reloaded
NEWS 25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS 26	Jul 21	Identification of STN records implemented
NEWS 27	Jul 21	Polymer class term count added to REGISTRY
NEWS EXPRESS	April 4	CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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=> s musa and ripening
L1 549 MUSA AND RIPENING

=> s l1 and transform?
L2 22 L1 AND TRANSFORM?

=> duplicate remove l2
DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, CAPLUS'
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PROCESSING COMPLETED FOR L2
L3 18 DUPLICATE REMOVE L2 (4 DUPLICATES REMOVED)

=> d l3 1-10

L3 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:133983 CAPLUS
DN 138:182057
TI Usage of zinc finger proteins and their fusions with effector domains to
regulate gene expression and metabolic pathways in plants

IN Barbas, Carlos F.; Stege, Justin T.; Guan, Xueni; Dalmia, Bipin
PA USA
SO U.S. Pat. Appl. Publ., 84 pp., Cont.-in-part of U.S. Ser. No. 620,897.
CODEN: USXXCO
DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003037355	A1	20030220	US 2001-765555	20010119
PRAI	US 2000-177468P	P	20000121		
	US 2000-620897	A2	20000721		

L3 ANSWER 2 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:300698 BIOSIS
DN PREV200300300698
TI Pectate lyase gene expression and enzyme activity in ***ripening***
banana fruit.
AU Marin-Rodriguez, M. C.; Smith, D. L.; Manning, K.; Orchard, J.; Seymour,
G. B. (1)
CS (1) Plant Genetics and Biotechnology Department, Horticulture Research
International, Wellesbourne, Warwickshire, CV35 9EF, UK:
graham.seymour@hri.ac.uk UK
SO Plant Molecular Biology, (April 2003, 2003) Vol. 51, No. 6, pp. 851-857.
print.
ISSN: 0167-4412.
DT Article
LA English

L3 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:367322 CAPLUS
DN 136:364908
TI DNA expression constructs with bidirectional promoters and agricultural
uses
IN Gan, Susheng; Xie, Mingtang; He, Yuehui
PA University of Kentucky Research Foundation, USA
SO U.S., 16 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6388170	B1	20020514	US 2000-545244	20000407
PRAI	US 2000-545244		20000407		

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:545414 CAPLUS
DN 135:133107
TI Usage of zinc finger protein to regulate gene expression and metabolic
pathways in plants and creation of five zinc finger proteins
IN Barbas, Carlos F., III; Stege, Justin T.; Guan, Xue Ni; Dalmia, Bipin
PA Scripps Research Institute, USA
SO PCT Int. Appl., 156 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001052620	A2	20010726	WO 2001-US1817	20010119
	WO 2001052620	A3	20020207		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 2001029641	A5	20010731	AU 2001-29641	20010119
	EP 1276869	A2	20030122	EP 2001-942508	20010119
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	US 2000-177468P	P	20000121		
	US 2000-620897	A	20000721		
	WO 2001-US1817	W	20010119		

L3 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:205351 CAPLUS
DN 130:248758
TI cDNA sequence of banana 1-aminocyclopropanecarboxylate synthase and aminocyclopropanecarboxylate oxidase, and vectors containing cDNAs used for genetic ***transformation*** of plants
IN Bird, Colin Roger; Fletcher, Jonathon David
PA Zeneca Limited, UK
SO U.S., 22 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5886164	A	19990323	US 1996-632598	19960415
	US 6262346	B1	20010717	US 1999-231240	19990115
PRAI	US 1996-632598	A1	19960415		
RE.CNT	12	THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD			
		ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L3 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:626949 CAPLUS
DN 132:149082
TI Sucrose phosphate synthase and sucrose synthase enzyme distribution during banana fruit ***ripening***
AU Bassinello, Priscila Z.; Fioravante, Ana Paula; Do Nascimento, Joao R. O.; Cordenunsi, Beatriz R.; Lajolo, Franco M.
CS Faculdade de Ciencias Farmaceuticas/USP - Depto. de Alimentos e Nutricao, Cidade Universitaria, Sao Paulo, 05508-900, Brazil
SO Ciencia e Tecnologia de Alimentos (1999), 19(1), 102-106
CODEN: CTALDN; ISSN: 0101-2061
PB Sociedade Brasileira de Ciencia e Tecnologia de Alimentos
DT Journal
LA Portuguese

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:790686 CAPLUS
DN 130:34020
TI Genetic control of fruit ***ripening***
IN Bird, Colin Roger; Medina-Suarez, Rosybel De Jesus; Seymour, Graham Barron
PA Zeneca Ltd., UK
SO PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9853085	A1	19981126	WO 1998-GB1297	19980505
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9872257	A1	19981211	AU 1998-72257	19980505
	US 2002026657	A1	20020228	US 2001-949052	20010907
PRAI	GB 1997-10370	A	19970520		
	WO 1998-GB1297	W	19980505		

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:184020 CAPLUS
DN 128:253783
TI Genetic control of fruit ***ripening*** and senescence in banana
IN Seymour, Graham Barron; Bird, Colin Roger; Medina-Suarez, Rosybel De Jesus
PA Zeneca Limited, UK; Seymour, Graham Barron; Bird, Colin Roger;
 Medina-Suarez, Rosybel De Jesus
SO PCT Int. Appl., 65 pp.
 CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9811228	A2	19980319	WO 1997-GB2424	19970908
	WO 9811228	A3	19980423		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9741291	A1	19980402	AU 1997-41291	19970908

EP 931150 A2 19990728 EP 1997-939069 19970908
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 JP 2000517164 T2 20001226 JP 1997-533834 19970908
 PRAI GB 1996-18862 A 19960910
 GB 1997-8366 A 19970425
 WO 1997-GB2424 W 19970908

L3 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1997:696590 CAPLUS
 DN 127:330642
 TI Method and apparatus for ***ripening*** perishable products in a
 temperature controlled room
 IN Mizera, Grzegorz Pawel; Franaszek, Stanislaw
 PA Chiquita Brands, Inc., USA
 SO PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9737545	A1	19971016	WO 1997-US5646	19970404
	W: AU, CZ, JP, NO				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9724411	A1	19971029	AU 1997-24411	19970404
	EP 906024	A1	19990407	EP 1997-920146	19970404
	R: BE, DE, FR, GB, NL, IE, FI				
PRAI	PL 1996-313751		19960411		
	PL 1996-313804		19960415		
	US 1997-781824		19970110		
	WO 1997-US5646		19970404		

L3 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1997:157317 CAPLUS
 DN 126:235991
 TI Biochemical pathways for the formation of esters in ***ripening***
 fruit
 AU Wyllie, S. Grant; Leach, D. N.; Nonhebel, H. N.; Lusunzi, I.
 CS Centre for Biostructural and Biomolecular Research, University of Western
 Sydney, New South Wales, 2753, Australia
 SO Special Publication - Royal Society of Chemistry (1996), 197(Flavour
 Science), 52-57
 CODEN: SROCDO; ISSN: 0260-6291
 PB Royal Society of Chemistry
 DT Journal
 LA English

=> d 13 11-18

L3 ANSWER 11 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 1
 AN 1989:268400 BIOSIS
 DN BA88:4482
 TI CORRELATION BETWEEN INCREASE IN 6 PHOSPHOFRUCTOKINASE ACTIVITY AND
 APPEARANCE OF THREE MULTIPLE FORMS IN ***RIPENING*** BANANA.

AU IYER M G; KAIMAL K S; NAIR P M
CS FOOD TECHNOL. ENZYME ENGINEERING DIV., BHABHA ATOMIC RES. CENT., BOMBAY
400 085, INDIA.
SO PLANT PHYSIOL BIOCHEM (PARIS), (1989) 27 (1), 99-106.
CODEN: PPBIEX. ISSN: 0981-9428.
FS BA; OLD
LA English

L3 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1988:527508 CAPLUS
DN 109:127508

TI Starch ***transformation*** during banana ***ripening*** : the
amylase and glucosidase behavior

AU Garcia, Elisabeth; Lajolo, Franco M.
CS Fac. Cienc. Farm., USP, Sao Paulo, Brazil
SO Journal of Food Science (1988), 53(4), 1181-6
CODEN: JFDSAZ; ISSN: 0022-1147

DT Journal
LA English

L3 ANSWER 13 OF 18 AGRICOLA Compiled and distributed by the National
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(2003) on STN DUPLICATE 2

AN 83:97635 AGRICOLA
DN IND83083655

TI Starch-sugar ***transformation*** during banana ***ripening*** :
the behavior of UDP glucose pyrophosphorylase, sucrose synthetase and
invertase ***Musa*** acuminata, uridine diphosphate.

AU Terra, N.N.; Garcia, E.; Lajolo, F.M.
AV DNAL (389.8 F7322)
SO Journal of food science., July/Aug 1983 Vol. 48, No. 4. p. 1097-1100
Publisher: Chicago : Institute of Food Technologists.
ISSN: 0022-1147

NTE Includes references.

DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L3 ANSWER 14 OF 18 AGRICOLA Compiled and distributed by the National
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of America. It contains copyrighted materials. All rights reserved.
(2003) on STN DUPLICATE 3

AN 82:45742 AGRICOLA
DN IND82029695

TI Starch ***transformation*** during banana ***ripening*** . I. The
phosphorylase and phosphatase behavior in ***Musa*** acuminata.

AU Areas, J.A.G.; Lajolo, F.M.
AV DNAL (TX545.J6)
SO Journal of food biochemistry., 1981 Vol. 5, No. 1. p. 19-37 ill
Publisher: Westport, Conn., Food and Nutrition Press.
ISSN: 0145-8884

NTE Includes 35 ref.

DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L3 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1972:83667 CAPLUS

DN 76:83667

TI Biochemical changes in banana during ***ripening***

AU Sgarbieri, Valdomiro C.; Figueiredo, Iovaldo B.

CS Inst. Tecnol. Aliment., Campinas, Brazil

SO Revista Brasileira de Tecnologia (1971), 2(2), 85-94

CODEN: RBTNAO; ISSN: 0370-3835

DT Journal

LA Portuguese

L3 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1970:486725 CAPLUS

DN 73:86725

TI Variations in the composition of Poyo bananas (***Musa*** acuminata) during ***ripening***

AU Rocchetti, Giuseppe; Cozzi, Paolo

CS Lab. Chim. Technol. Agr., Ist. Agron. Oltremare, Italy

SO Rivista di Agricoltura Subtropicale e Tropicale (1969), 63(10-12), 457-70

CODEN: RSTTAP; ISSN: 0035-6026

DT Journal

LA Italian

L3 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1968:112221 CAPLUS

DN 68:112221

TI Biochemical ***transformations*** occurring during the ***ripening*** of bananas. I. Pulp-to-peel ratio, total and soluble solids, organic acids, and carbohydrates

AU Sgarbieri, Valdemiro C.; Figueiredo, Iovaldo B.

CS Centro Trop. Pesqui. Tecnol. Aliment., Campinas, Brazil

SO Anais da Associacao Brasileira de Quimica (1967), 26(1-2), 49-66

CODEN: AABQAL; ISSN: 0365-0073

DT Journal

LA Portuguese

L3 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1967:481271 CAPLUS

DN 67:81271

TI Biochemical ***transformations*** during banana ***ripening***

AU Figueiredo, Iovaldo B.; Sgarbieri, Valdemiro C.

CS Centro Trop. Pesq. Tecnol. Alimentos, Campinas/Sao Paulo, Brazil

SO Arquivos Brasileiros de Nutricao (1965), 21(1), 65-86

CODEN: ABNUAW; ISSN: 0365-0782

DT Journal

LA Portuguese

=> s banana and pectate(w) lyase

L4 19 BANANA AND PECTATE(W) LYASE

=> duplicate remove l4

DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'

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PROCESSING COMPLETED FOR L4

L5 9 DUPLICATE REMOVE L4 (10 DUPLICATES REMOVED)

=> d 15 1-9

- L5 ANSWER 1 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 1
AN 2003:300698 BIOSIS
DN PREV200300300698
TI ***Pectate*** ***lyase*** gene expression and enzyme activity in
ripening ***banana*** fruit.
AU Marin-Rodriguez, M. C.; Smith, D. L.; Manning, K.; Orchard, J.; Seymour,
G. B. (1)
CS (1) Plant Genetics and Biotechnology Department, Horticulture Research
International, Wellesbourne, Warwickshire, CV35 9EF, UK:
graham.seymour@hri.ac.uk UK
SO Plant Molecular Biology, (April 2003, 2003) Vol. 51, No. 6, pp. 851-857.
print.
ISSN: 0167-4412.
DT Article
LA English
- L5 ANSWER 2 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 2
AN 2003:311702 BIOSIS
DN PREV200300311702
TI ***Pectate*** ***lyase*** activity during ripening of
banana fruit.
AU Payasi, Anurag; Sanwal, G. G. (1)
CS (1) Department of Biochemistry, University of Lucknow, Lucknow, 226 007,
India: girdharsanwal@yahoo.com India
SO Phytochemistry (Amsterdam), (June 2003, 2003) Vol. 63, No. 3, pp. 243-248.
print.
ISSN: 0031-9422.
DT Article
LA English
- L5 ANSWER 3 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 3
AN 2001:303111 BIOSIS
DN PREV200100303111
TI Survival of memory T cells specific for Japanese cypress pollen allergen
is maintained by cross-stimulation of putative ***pectate***
lyases from other plants.
AU Nakamura, Y. (1); Takagi, S.; Suzuki, M.; Ito, H.; Murakami, S.; Ohta, N.
CS (1) Department of Otorhinolaryngology, Nagoya City University Medical
School, 1 Azakawasumi, Mizuhocho, Mizuhoku, Nagoya, 467-8601 Japan
SO Allergy (Copenhagen), (May, 2001) Vol. 56, No. 5, pp. 385-392. print.
ISSN: 0105-4538.
DT Article
LA English
SL English
- L5 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 4
AN 2001:453578 BIOSIS
DN PREV200100453578
TI Isolation and expression of two ***pectate*** ***lyase*** genes
during fruit ripening of ***banana*** (Musa acuminata).
AU Pua, Eng-Chong (1); Ong, Choon-Kiat; Liu, Pei; Liu, Jian-Zhong

CS (1) Plant Genetic Engineering Laboratory, Department of Biological Sciences, Faculty of Science, National University of Singapore, 10 Kent Ridge Crescent, Singapore, 119260: dbspuaec@nus.edu.sg Republic of Singapore

SO Physiologia Plantarum, (September, 2001) Vol. 113, No. 1, pp. 92-99. print.
ISSN: 0031-9317.

DT Article

LA English

SL English

L5 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:184020 CAPLUS

DN 128:253783

TI Genetic control of fruit ripening and senescence in ***banana***

IN Seymour, Graham Barron; Bird, Colin Roger; Medina-Suarez, Rosybel De Jesus

PA Zeneca Limited, UK; Seymour, Graham Barron; Bird, Colin Roger; Medina-Suarez, Rosybel De Jesus

SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9811228	A2	19980319	WO 1997-GB2424	19970908
	WO 9811228	A3	19980423		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9741291	A1	19980402	AU 1997-41291	19970908
	EP 931150	A2	19990728	EP 1997-939069	19970908
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2000517164	T2	20001226	JP 1997-533834	19970908
PRAI	GB 1996-18862	A	19960910		
	GB 1997-8366	A	19970425		
	WO 1997-GB2424	W	19970908		

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AN 1998:53864 AGRICOLA

DN IND20631474

TI A cDNA clone highly expressed in ripe ***banana*** fruit shows homology to ***pectate*** ***lyases***

AU Dominguez-Puigjaner, E.; Llop, I.; Vendrell, M.; Prat, S.

AV DNAL (450 P692)

SO Plant physiology, July 1997. Vol. 114, No. 3. p. 1071-1076
Publisher: Rockville, MD : American Society of Plant Physiologists, 1926-CODEN: PLPHAY; ISSN: 0032-0889

NTE Includes references
 CY Maryland; United States
 DT Article; Conference
 FS U.S. Imprints not USDA, Experiment or Extension
 LA English

L5 ANSWER 7 OF 9 AGRICOLA Compiled and distributed by the National
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 (2003) on STN DUPLICATE 6
 AN 1998:22435 AGRICOLA
 DN IND20625098
 TI ***Pectate*** ***lyase*** of Colletotrichum gloeosporioides
 attacking avocado fruits: cDNA cloning and involvement in pathogenicity.
 AU Wattad, C.; Kobiler, D.; Dinoor, A.; Prusky, D.
 AV DNAL (SB599.P45)
 SO Physiological and molecular plant pathology, Mar 1997. Vol. 50, No. 3. p.
 197-212
 Publisher: London ; Orlando : Academic Press, c1986-
 CODEN: PPPYBC; ISSN: 0885-5765

NTE Includes references
 CY England; United Kingdom
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L5 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1988:146782 CAPLUS
 DN 108:146782
 TI ***Pectate*** ***lyases*** of Erwinia chrysanthemi: Pel E-like
 polypeptides and peLE homologous sequences in strains isolated from
 different plants
 AU Thurn, K. K.; Barras, F.; Kegoya-Yoshino, Y.; Chatterjee, A. K.
 CS Dep. Plant Pathol., Kansas State Univ., Manhattan, KS, 66506, USA
 SO Physiological and Molecular Plant Pathology (1987), 31(3), 429-39
 CODEN: PMPPEZ; ISSN: 0885-5765
 DT Journal
 LA English

L5 ANSWER 9 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 7
 AN 1980:264677 BIOSIS
 DN BA70:57173
 TI MACERATING ENZYME PRODUCTION BY COLLETOTRICHUM-MUSAE AND
 FUSARIUM-SEMITECTUM INCITANTS OF ***BANANA*** MUSA-ACUMINATA FRUIT
 DECAY.
 AU SHILLINGFORD C A; SINCLAIR J B
 CS DEP. PLANT PATHOL., UNIV. ILL., URBANA, ILL. 61801, USA.
 SO PHYTOPATHOL Z, (1980) 97 (2), 127-135.
 CODEN: PHYZA3. ISSN: 0031-9481.
 FS BA; OLD
 LA English

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L5 ANSWER 1 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 1

AB Two distinct cDNA clones showing sequence homology to higher-plant
pectate ***lyase*** (Pel) genes were isolated from ripening
banana fruits. The transcripts were detected only in fruit tissue
and both were strongly ripening-related. Yeast transformation with the
most highly expressed Pel clone produced a recombinant protein with
pectate ***lyase*** activity, demonstrating that this
sequence

was likely to encode a ***pectate*** ***lyase*** protein in
planta. An assay developed for measuring the action of the endogenous
enzyme from ***banana*** pulp tissue revealed a significant increase
in calcium-dependent ***pectate*** ***lyase*** activity during
ripening. The enhanced levels of enzyme activity corresponded with an
increase in soluble polyuronides from ***banana*** pulp.

L5 ANSWER 2 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 2

AB ***Pectate*** ***lyase*** (PEL) activity was demonstrated in ripe
banana fruits on supplementing the homogenizing medium with
cysteine and Triton X-100. The enzyme was characterized on the basis of
alkaline pH optimum, elimination of the activity by EDTA and activation by
Ca²⁺. PEL activity was not detected in preclimacteric ***banana***
fruits. PEL activity increased progressively from early climacteric and
reached maximum level at climacteric peak and declined in post climacteric
and over ripened fruits. Replacing pectate with pectin in PEL assay
manifested enzyme activity even in preclimacteric fruits. In contrast to
PEL, polygalacturonase activity progressively increased during fruit
ripening even in postclimacteric fruits.

L5 ANSWER 3 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 3

AB In view of recent studies on the mechanisms of the survival of peripheral
memory T cells, we tested the biologic role of ***pectate***
lyase, a pectin-degrading enzyme, as the cross-reactive antigen
required for the recurring survival signals for human T cells specific for
Cha o 1, a pollen allergen molecule of the Japanese cypress. We determined
a 16-mer epitope peptide for the T-cell clone, and prepared synthetic
oligopeptides of homologous regions in putative ***pectate***
lyase of other plants. Of these homologous peptides, ZePel
(Zinnia
elegans), ban 17 (***banana***), and Amb a 1.1 (short ragweed) induced

strong proliferative responses of the Cha o 1-specific T-cell clone in vitro. In addition, suboptimal doses of peptide homologs derived from ***banana*** and short ragweed enhanced the survival potency of this T-cell clone without detectable proliferative responses to the peptides. When there was no antigen stimulation, the T-cell clone decreased in viable cell number and lost antigen-specific proliferation activity on day 6 during in vitro incubation. On the other hand, T-cell clones incubated with these survival-inducing peptides maintained proliferative activity to Cha o 1 even on day 9. Serum derived from the donor patient did not contain detectable levels of IgE specific to ***banana*** or short ragweed by CAP-RAST. These results show that human T cells specific for pollen allergen seem to use cross-reactive ***pectate*** ***lyase*** peptides to deliver survival signals even in the absence of pollen allergen, and memory T cells maintained in such a manner might be functioning at the onset of allergic pollinosis, although pollen allergens are seasonal.

L5 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 4

AB Two cDNAs, designated MWPL1 and MWPL2, encoding putative ***pectate*** ***lyases*** (Pel; EC 4.2.2.2), which catalyze the cleavage by beta-elimination of alpha-1fwdarw4-linked galacturonosyl residues of pectins found mostly in middle lamella and primary cell wall in plants, were isolated from ripening fruit of ***banana*** (Musa acuminata) and their expressions in fruit during ripening and in response to ethylene were investigated. MWPL1 and MWPL2 encode a single polypeptide of 407 and 454 amino acid residues, respectively. The two cDNAs shared an overall identity of 75% in both nucleotide and deduced amino acid sequences. Sequence comparison of MWPL1 and other plant Pels revealed the homology ranging from 76% with zinnia to 48% with ragweed. Southern analysis indicated that MWPL1 might be present as a single copy gene, and there might be up to two copies of MWPL2 in the ***banana*** genome. The two cDNAs were expressed differentially and/or spatially in various ***banana*** organs, with female flower and fruit tissues showing accumulation of the MWPL2 transcript, which was not detected in root, pseudostem, leaf, male flower and ovary, whereas the MWPL1 transcript was not detectable in all organs tested. In fruit tissue during ripening, although transcripts of both members were not detectable in unripe preclimacteric fruits, they began to accumulate as ripening progressed and the level remained high thereafter in overripe fruits. However, the magnitude of transcript accumulation differed between the two Pel members, with substantially more abundant MWPL2 than MWPL1 in ripening fruit. Similar differential transcript accumulation was also observed between peel and pulp, where the former was markedly higher than the latter. Expression of both Pel members was also affected by exogenous ethylene, whose presence at 5-100 ppm stimulated accumulation of MWPL1 and MWPL2 transcripts in preclimacteric fruit, suggesting that ethylene may play an important regulatory role in regulating Pel expression during fruit ripening of the ***banana***.

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